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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Sanjay Bhanot	01/18/2007
Kenneth W. Dobie	01/17/2007
John G. Geisler	08/21/2007
Mark J. Graham	01/17/2007

RECEIVING PARTY DATA

Name:	Isis Pharmaceuticals, Inc.	
Street Address:	1896 Rutherford Road	
City:	Carlsbad	
State/Country:	CALIFORNIA	
Postal Code:	92008	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	11613144	

CORRESPONDENCE DATA

Fax Number: (760)603-3820

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 760-603-2553

Email: leames@isisph.com

Correspondent Name: Isis Pharmaceuticals, Inc.

Address Line 1: 1896 Rutherford Road

Address Line 4: Carlsbad, CALIFORNIA 92008

ATTORNEY DOCKET NUMBER:	ISPH-0590US.C1

NAME OF SUBMITTER: Laura Eames

Total Attachments: 6

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PATENT REEL: 019748 FRAME: 0474

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> PATENT REEL: 019748 FRAME: 0475

PATENT

DOCKET NO.: ISPH-0590US.C1

ASSIGNMENT

WHEREAS, I/we, Sanjay Bhanot, of Carlsbad, CA, Kenneth W. Dobie, of Del Mar, CA,

John G. Geisler, of Blue Bell, PA, Mark J. Graham, of San Clemente, CA, has/have invented a

certain invention entitled ANTISENSE MODULATION OF STEAROYL-COA DESATURASE

EXPRESSION, for which I/we have made an application for Letters Patent of the United States,

said application having been filed 12/19/2006 and assigned Application No. 11/613,144; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 1896

Rutherford Road, Carlsbad CA, a corporation of Delaware, is desirous of acquiring the entire right,

title and interest in and to the said inventions or improvements and in and to the said application, and

in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and

all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us

in hand paid by said assignee, and other good and valuable consideration, the receipt of which is

hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by

these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and

interest in and to said inventions or improvements and said application and any and all continuations,

divisions and renewals of and substitutes for said application, and in, to and under any and all Letters

Patent which may be granted on or as a result thereof in the United States and any and all other

countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to

and authorize said assignee, to file in our names applications for Letters Patent in all countries, the

same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal

representatives, to the full end of the term or terms for which said Letters Patent respectively may be

granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed

by us had this assignment, sale and transfer not been made.

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PATENT REEL: 019748 FRAME: 0476 DOCKET NO.: ISPH-0590US.C1 PATENT

AND we hereby covenant that we have full right to convey the entire interest herein assigned,

and that we have not executed and will not execute any agreement in conflict herewith, and we

further covenant and agree that we will each time request is made and without undue delay, execute

and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or

improvements, said application and said Letters Patent to said assignee, its successors, assigns,

nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its

nominee all known facts respecting said inventions or improvements, said application and said

Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers

and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally

to do everything possible to aid said assignee, its successors, assigns, nominees and legal

representatives to obtain and enforce for its or their own benefit proper patent protection for said

inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the

United States and any official of any country or countries foreign to the United States whose duty it

is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire

right, title and interest, any and all Letters Patent for said inventions or improvements, including any

and all Letters Patent of the United States which may be issued and granted on or as a result of the

application aforesaid, in accordance with the terms of this assignment.

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PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Sanjay Bhanot

State of <u>California</u>)

County of <u>San Diago</u>

Notary Public for the state, personally appeared **Sanjay Bhanot**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

LAURA L. EAMES
Commission # 1483258
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2008

WITNESS my hand and official seal.

Signature of Notary

Dated:	Kenneth W. Dobie
State of)	
County of Ss.	
On thisday of	, 20, before me, the undersigned, a
Notary Public for the state, personally appeared K	enneth W. Dobie, personally known to me/proved
to me on the basis of satisfactory evidence to	be the person who subscribed the foregoing
Assignment and acknowledged to me that he/she	executed the same in his/her authorized capacity,
and that by his/her signature on the Assignment	the person, or the entity on behalf of which the
person acted, executed the Assignment.	
	WITNESS my hand and official seal.

Signature of Notary

DOCKET NO.: ISPH-0590US.C1

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PATENT

DOCKET NO.: ISPH-0590US.C1 PATENT

Dated: 8/2/ 2007

John G. Geisler

State of <u>Pennsylvania</u>)
County of <u>flontocmery</u>)

ss.

me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted,

executed the Assignment.

WITNESS my hand and official seal.

Signature of Notary

COMMONWEALTH OF PENNSYLVANIA

Maria I . Shehuho

Notarial Seal ia I. Shchuka. Notarv I

Maria I. Shchuka, Notary Public Lower Gwynedd Twp., Montgomery County My Commission Expires April 14, 2011

Member, Pennsylvania Association of Notaries

DOCKET NO.: ISPH-0590US.C1

PATENT

Dated: 17 20 07

Mark J. Graham

State of California

County of San Diago

On this _______, 20<u>07</u>, before me, the undersigned, a

Notary Public for the state, personally appeared Mark J. Graham, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the

person acted, executed the Assignment.

LAURA L. EAMES
Commission # 1483258
Notary Public - California
San Diego County
My Comm. Expires Apr 13, 2008

RECORDED: 08/27/2007

WITNESS my hand and official seal.

Signature of Notary

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PATENT REEL: 019748 FRAME: 0481